



Bulletin 132-86
May 1987

State of California
The Resources Agency

Department of
Water Resources

Management of the California State Water Project Appendix D Costs of Recreation and Fish and Wildlife Enhancement



Gordon K. Van Vleck

Secretary for Resources
The Resources Agency

George Deukmejian

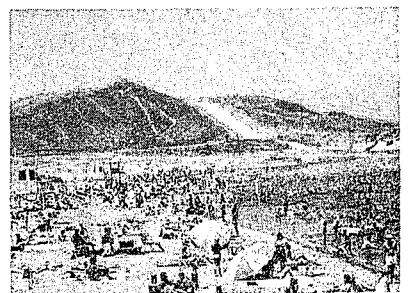
Governor
State of California

David N. Kennedy

Director
Department of Water Resources

Copies of this bulletin are available
free from:

State of California
Department of Water Resources
P. O. Box 942836
Sacramento, CA 94236-0001



ON THE COVER: Beach at Castaic
Lagoon with Perris Dam and Spillway in
the background.

**Department of
Water Resources
Bulletin 132-86**

Management of the California State Water Project

Appendix D Costs of Recreation and Fish and Wildlife Enhancement

May 1987

Gordon K. Van Vleck
Secretary for Resources

**The Resources
Agency**

George Deukmejian
Governor

**State of
California**


David N. Kennedy
Director

**Department of
Water Resources**

FOREWORD

The Davis-Dolwig Act (Sections 11900-11925 of the California Water Code) declares that providing for the enhancement of fish and wildlife and for recreation in connection with State water projects benefits all of the people of California and that the costs attributable to such enhancement should be borne by them. The Act also provides a procedure through which the Department of Water Resources will be reimbursed for those project costs which are allocated to recreation and fish and wildlife enhancement and for costs of acquiring property for recreation development. The Department is to annually report such expenditures to the Legislature. If the Legislature approves the reported costs, a like amount of the State's tideland oil and gas revenues will be released to the Department from a continuing \$5,000,000 annual appropriation of tideland revenues which has been authorized specifically for that purpose (Public Resources Code Section 6217).

This constitutes the Department's 1986 report to the Legislature in compliance with the above requirement. An additional \$5,180,551 for recreation and fish and wildlife enhancement is reported herein. This amount consists of \$5,185,499 for joint capital costs of the State Water Project which is allocated to recreation and fish and wildlife enhancement, less \$4,948 for specific recreation land costs. The additional amount is mostly due to costs incurred in 1985 and interest accrued during 1985 on recreation costs not yet reimbursed by the continuing annual appropriation.



David N. Kennedy, Director
Department of Water Resources
The Resources Agency
State of California

State of California
GEORGE DEUKMEJIAN, Governor

The Resources Agency
GORDON K. VAN VLECK, Secretary for Resources

Department of Water Resources
DAVID N. KENNEDY, Director

JOHN P. CAFFREY
Deputy Director

ROBERT G. POTTER
Deputy Director

ROBERT E. WHITING
Deputy Director

SALLE S. JANTZ
Assistant Director

ROBERT W. JAMES
Chief Counsel

STATE WATER PROJECT ANALYSIS OFFICE

Lawrence E. Swenson, Chief

This report was prepared under

the direction of

Donald R. Long, Chief, Project Cost Branch
Jesse J. Cason, Chief, Cost Allocation and Repayment Section

by

Mike Torabian, Assistant Engineer
Nancy D. Ullrey, Research Writer
Helen Sugiyama, Senior Stenographer

Assistance in report preparation
was provided by

Earl G. Bingham, Research Writer

and on the basis of records compiled under the direction of

Donald E. Owen, Chief, Division of Land and Right of Way
Donald A. Sandison, Chief, Division of Fiscal Services
Chester M. Winn, Controller

CALIFORNIA WATER COMMISSION

CLAIR A. HILL, Chairman, Redding
MARTIN A. MATICH, Vice Chairman, San Bernardino

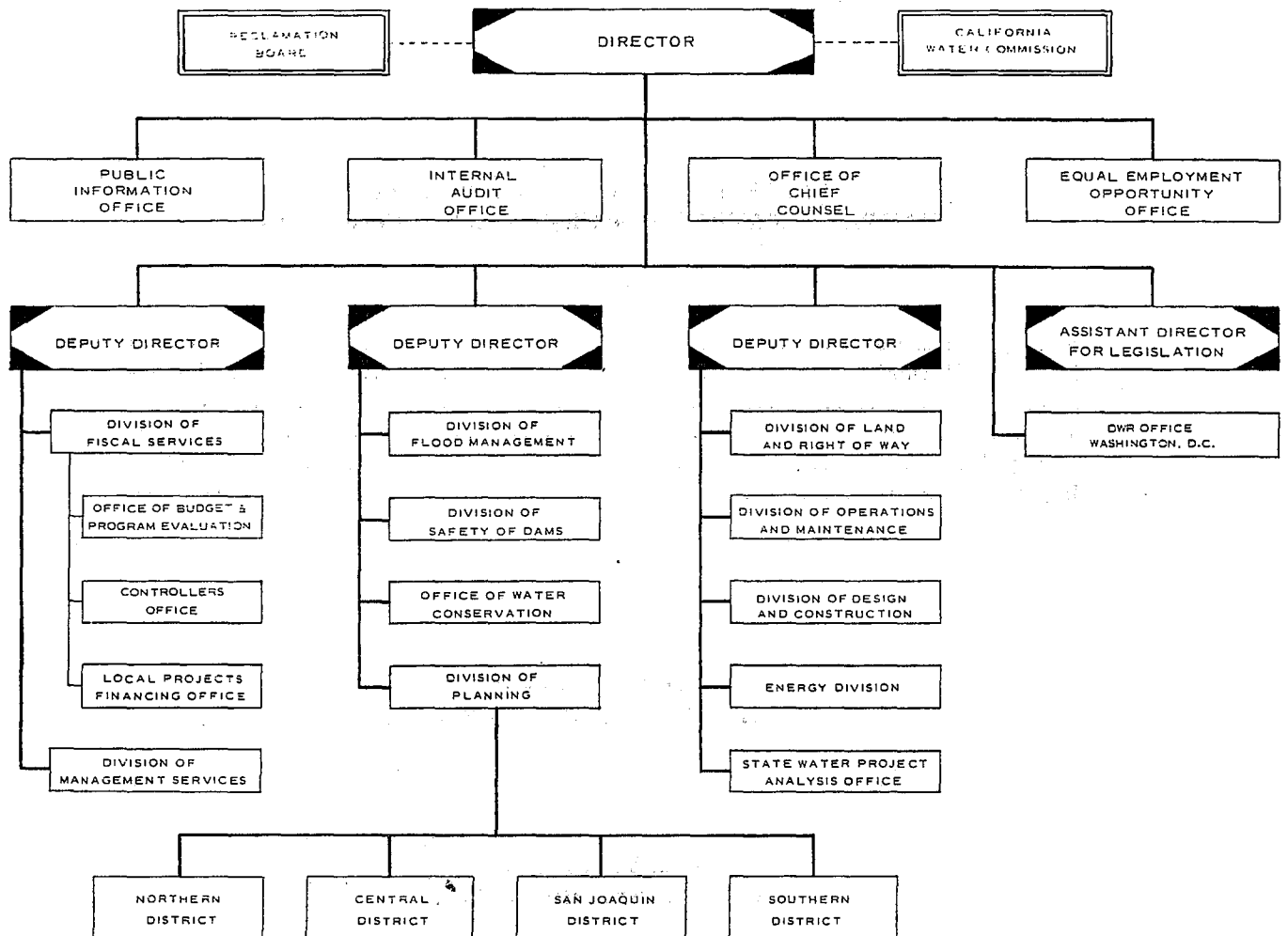
Stanley M. Barnes	Visalia
Katherine B. Dunlap	Los Angeles
Leon E. Henry	Hacienda Heights
James J. Lenihan	Los Altos
Audrey Z. Tennis	Chico
Jack G. Thomson	Bakersfield

Orville L. Abbott
Executive Officer and Chief Engineer

Tom Y. Fujimoto
Assistant Executive Officer

The California Water Commission serves as a policy advisory body to the Director of Water Resources on all California water resources matters. The nine-member citizen commission provides a water resources forum for the people of the State, acts as a liaison between the legislative and executive branches of State Government and coordinates Federal, State, and local water resources efforts.

ORGANIZATION OF THE DEPARTMENT OF WATER RESOURCES



REPORTING OF RECREATION
AND
FISH AND WILDLIFE ENHANCEMENT COSTS

Section 11912 of the California Water Code assigns to the Department of Water Resources (Department) the following responsibilities:

It shall be the duty of the Department to report annually to the Legislature the costs, if any, which the Department has allocated to recreation and fish and wildlife enhancement for each facility of any state water project. The Department shall also report to the Legislature any revisions which the Department makes in such allocations.

The Department shall submit each such cost allocation to the Department of Navigation and Ocean Development (Department of Boating and Waterways), the Department of Parks and Recreation, and to the Department of Fish and Game. The Department of Navigation and Ocean Development, the Department of Parks and Recreation, and the Department of Fish and Game shall file with the Department of Water Resources their written comments with respect to each such cost allocation, which written comments shall be included in the report required by this section.

It shall also be the duty of the Department to report to the Legislature on any expenditure of funds for acquiring rights-of-way, easements and property pursuant to Section 346 for recreation development associated with such facilities ...

This appendix is the Department's 1986 report, as required by Section 11912 of the California Water Code.

For brevity, "fish and wildlife enhancement" is hereafter referred to as "enhancement." The Department's (DWR) cost allocations treat recreation and enhancement as one combined purpose of the State Water Project (SWP).

Organization of Report

Capital costs of SWP facilities allocated by DWR to recreation and enhancement, through December 31, 1985 are shown in Table 1, pages 8 and 9. Table 1 also shows the expenditures for acquiring rights of way, easements, and property for recreation development associated with such facilities. Table 2, on pages 14 and 15, details the accrued interest charges included in the costs shown in Table 1.

The notes to Table 1, pages 10 through 13, explain the DWR's procedures for reporting recreation and enhancement costs, describe how the amounts shown in the table are calculated, and reconcile significant changes from costs shown in previous reports.

The costs shown in Table 1 do not reflect new or revised allocations for any facility of the SWP. The derivation of allocation percentages indicated for joint capital costs of those multipurpose facilities listed in the upper portion of Table 1 have been described in previous reports. Copies of those descriptions are available upon request to DWR.

A summary of allocation percentages is shown on page 16, along with illustrative allocation percentages for facilities not yet reported.

Included at the end of this report are comments by the Department of Boating and Waterways, the Department of Parks and Recreation, and the Department of Fish and Game.

TABLE 1: RECREATION AND ENHANCEMENT
(Reported to the California Legislature in
(in

ITEM	DISBURSEMENTS							
	1952 1972	1973	1974	1975	1976	1977	1978	1979
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Joint Capital Costs Allocated								
<u>Frenchman Dam and Lake (78.5%)</u>								
California Water Resources Development Bond Fund	102,997	0	0	0	0	0	0	0
All Other Funds	2,432,633	972	1,195	365	916	700	10,531	9,278
Subtotal	2,535,630	972	1,195	365	916	700	10,531	9,278
<u>Antelope Dam and Lake (100%)</u>								
California Water Resources Development Bond Fund	1,036,428	0	0	0	0	0	0	0
All Other Funds	3,940,705	1,414	1,806	513	1,731	1,348	18,514	16,099
Subtotal	4,977,133	1,414	1,806	513	1,731	1,348	18,514	16,099
<u>Grizzly Valley Dam and Lake Davis (99.0%)</u>								
California Water Resources Development Bond Fund	4,003,092	0	0	0	0	0	0	0
All Other Funds	527,433	25,194	47,579	88,268	22,115	8,197	78,430	45,879
Subtotal	4,530,525	25,194	47,579	88,268	22,115	8,197	78,430	45,879
<u>San Luis Dam and Reservoir, O'Neill Forebay and Los Banos Reservoir (3.4%)</u>								
California Water Resources Development Bond Fund	2,032,999	-268	-381	-253	-130	-118	-56	0
All Other Funds	1,360,585	9,347	12,561	11,665	4,870	5,660	-22,713	-2,289
Subtotal	3,393,584	9,079	12,180	11,412	4,740	5,542	-22,769	-2,289
<u>California Aqueduct, Delta to Dos Amigos P.P. (3.4%)</u>								
California Water Resources Development Bond Fund	4,467,697	-30	0	0	0	0	0	0
All Other Funds	720,928	7,861	12,243	21,602	38,409	15,453	19,999	32,771
Subtotal	5,188,625	7,831	12,243	21,602	38,409	15,453	19,999	32,771
<u>Oroville Division (2.9%)</u>								
California Water Resources Development Bond Fund	5,725,487	-37	-42	-18	-15	-15	-19	-23
All Other Funds	3,306,009	23,796	26,144	28,467	28,087	515,025	83,103	52,177
Subtotal	9,031,496	23,759	26,102	28,449	28,072	515,010	83,084	52,154
<u>Del Valle Dam and Lake Del Valle (48.0%)</u>								
California Water Resources Development Bond Fund	10,546,762	0	0	0	0	0	0	0
All Other Funds	2,150,539	9,614	115,645	7,835	9,976	3,656	9,324	33,333
Subtotal	12,697,301	9,614	115,645	7,835	9,976	3,656	9,324	33,333
<u>California Aqueduct, Dos Amigos P.P. to Termini (5.7%)</u>								
California Water Resources Development Bond Fund	48,663,380	-2,130	-38,892	131	59	57	-1,440	-155
All Other Funds	19,601,349	2,719,294	1,466,020	1,238,094	974,102	830,247	868,320	1,602,475
Subtotal	68,264,729	2,717,164	1,427,128	1,238,225	974,161	830,304	866,880	1,602,320
TOTAL	110,619,023	2,795,527	1,643,878	1,396,667	1,080,120	1,380,210	1,063,993	1,789,545
Specific Costs of Acquiring Land for								
<u>Frenchman Dam and Lake</u>								
California Water Resources Development Bond Fund	3,379	0	0	0	0	0	0	0
All Other Funds	49,947	0	0	0	0	0	0	0
Subtotal	53,326	0	0	0	0	0	0	0
<u>Grizzly Valley Dam and Lake Davis</u>								
California Water Resources Development Bond Fund	204,116	0	0	0	0	0	0	0
All Other Funds	5,246	0	0	0	0	0	0	2,648
Subtotal	209,362	0	0	0	0	0	0	2,648
<u>Abbey Bridge Dam and Reservoir</u>								
California Water Resources Development Bond Fund	9	0	0	0	0	0	0	0
All Other Funds	9,921	0	0	0	0	0	0	0
Subtotal	9,930	0	0	0	0	0	0	0
<u>San Luis Dam and Reservoir, O'Neill Forebay, and Los Banos Reservoir</u>								
California Water Resources Development Bond Fund	395,284	0	0	0	0	0	0	0
All Other Funds	188,562	19,102	118	508	692	729	1,075	56,089
Subtotal	583,846	19,102	118	508	692	729	1,075	56,089
<u>California Aqueduct, Delta to Dos Amigos P.P.</u>								
California Water Resources Development Bond Fund	461,086	0	0	0	0	0	0	0
All Other Funds	107,987	83	113	349	888	617	978	21,952
Subtotal	569,073	83	113	349	888	617	978	21,952
<u>Oroville Division</u>								
California Water Resources Development Bond Fund	7,810,220	-74	-87	-53	-45	-45	-57	-69
All Other Funds	336,761	488	1,015	-3,762	1,880	1,637	101,283	1,313
Subtotal	8,146,981	414	928	-3,815	1,835	1,592	101,226	1,244
<u>Del Valle Dam and Lake Del Valle</u>								
California Water Resources Development Bond Fund	519,425	0	0	0	0	0	0	0
All Other Funds	-40,887	2,017	820	403	44	88	707	262
Subtotal	478,538	2,017	820	403	44	88	707	262
<u>California Aqueduct, Dos Amigos P.P. to Termini</u>								
California Water Resources Development Bond Fund	479,551	-580	0	0	0	0	0	0
All Other Funds	40,666	2,876	1,666	11,095	123	561	33,357	274,051
Subtotal	520,217	2,296	1,666	11,095	123	561	33,357	274,051
<u>Castaic Dam and Lake</u>								
California Water Resources Development Bond Fund	1,957,616	-2,978	-232	-109	0	0	0	0
All Other Funds	142,361	28,270	6,550	89,836	10,841	18,589	49,662	113,056
Subtotal	2,099,977	25,292	6,318	89,727	10,841	18,589	49,662	113,056
<u>Cedar Springs Dam and Silverwood Lake</u>								
California Water Resources Development Bond Fund	425,291	-325	0	0	0	0	0	0
All Other Funds	197,239	13,511	28,987	11,865	5,739	2,528	8,402	15,953
Subtotal	622,530	13,186	28,987	11,865	5,739	2,528	8,402	15,953
<u>Perris Dam and Lake Perris</u>								
California Water Resources Development Bond Fund	1,027,489	-5,176	0	0	0	0	0	0
All Other Funds	3,707,111	20,464	8,922	32,890	15	0	84,460	206,806
Subtotal	4,734,600	15,288	8,922	32,890	15	0	84,460	206,806
TOTAL	18,028,380	77,678	47,872	143,022	20,177	24,704	279,867	692,021
TOTAL RECREATION AND ENHANCEMENT COSTS								
California Water Resources Development Bond Fund	89,862,308	-11,598	-39,634	-302	-131	-121	-1,572	-247
All Other Funds	38,785,095	2,884,803	1,731,384	1,539,991	1,100,428	1,405,035	1,345,432	2,481,813
GRAND TOTAL	128,647,403	2,873,205	1,691,750	1,539,689	1,100,297	1,404,914	1,343,860	2,481,566

COST OF THE STATE WATER PROJECT (a Response to Water Code Section 11912) dollars)

BY CALENDAR YEAR						TOTAL	INTEREST	TOTAL	PREVIOUS	INCREASE
1980	1981	1982	1983	1984	1985					
(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
to Recreation and Enhancement: (b)										
0	0	0	0	0	0	102,997	1,803	104,800	104,800	0
56,964	13,705	69,404	64,496	2,489	39,263	2,702,911	0	2,702,911	2,663,637	39,274
56,964	13,705	69,404	64,496	2,489	39,263	2,805,908	1,803	2,807,711	2,768,437	39,274
0	0	0	0	0	0	1,036,428	98,396	1,134,824	1,134,824	0
61,303	4,516	88,787	42,171	47,447	83,887	4,310,241	0	4,310,241	4,226,254	83,987
61,303	4,516	88,787	42,171	47,447	83,887	5,346,669	98,396	5,445,065	5,361,078	83,987
0	0	0	0	0	0	4,003,092	417,923	4,421,015	4,421,015	0
92,353	10,325	51,133	27,800	21,533	14,791	1,061,030	0	1,061,030	1,046,217	14,813
92,353	10,325	51,133	27,800	21,533	14,791	5,064,122	417,923	5,482,045	5,467,232	14,813
-2,078	-1,419	-35,272	-16,941	-15,505	-3,153	1,957,425	281,672	2,239,097	2,242,307	-3,210
19,269	8,384	281,990	137,956	64,231	21,932	1,913,458	0	1,913,458	1,891,350	22,108
17,191	5,965	246,718	121,025	48,726	18,779	3,870,883	281,672	4,152,555	4,133,657	18,898
0	0	0	0	0	0	4,467,667	749,756	5,217,423	5,217,423	0
28,506	194,722	145,514	58,656	84,752	39,607	1,421,023	0	1,421,023	1,381,122	39,901
28,506	194,722	145,514	58,656	84,752	39,607	5,888,690	749,756	6,638,446	6,598,545	39,901
-27	-29	-28	-9	0	0	5,725,225	1,725,254	7,450,479	7,450,479	0
28,974	18,411	14,317	17,956	17,266	4,952	5,164,724	0	4,164,724	4,159,716	5,008
28,974	18,382	14,289	17,987	17,266	4,952	9,889,949	1,725,254	11,615,203	11,610,195	5,008
0	0	0	0	0	0	10,546,762	5,503,352	16,050,114	16,050,114	0
35,871	23,936	24,576	77,693	164,372	42,062	2,708,432	0	2,708,432	2,664,484	43,948
35,871	23,936	24,576	77,693	164,372	42,062	13,255,194	5,503,352	18,758,546	18,714,598	43,948
3,473	2,382	59,123	28,400	25,997	5,293	48,745,678	52,086,495	100,832,173	96,794,462	4,037,711
2,286,513	1,979,740	3,169,852	2,350,310	1,504,582	829,467	41,420,963	0	41,420,963	40,519,004	901,959
2,290,086	1,982,122	3,228,975	2,378,710	1,530,579	834,760	90,166,641	52,086,495	142,253,136	137,313,466	4,939,670
2,611,221	2,254,673	3,869,396	2,788,538	1,917,164	1,078,101	136,288,056	60,864,651	197,152,707	191,967,208	5,185,499
Recreation Development: (c)										
0	0	0	0	0	0	3,379	134	3,513	3,513	0
0	0	0	0	0	0	49,947	0	49,947	49,947	0
0	0	0	0	0	0	53,326	134	53,460	53,460	0
0	0	0	0	0	0	204,116	15,099	219,215	219,215	0
56,918	76,931	451,796	2,792	-203,509	0	392,822	0	392,822	392,822	0
56,918	76,931	451,796	2,792	-203,509	0	596,938	15,099	612,037	612,037	0
0	0	0	0	0	0	9	0	9	9	0
0	0	0	0	0	0	9,921	0	9,921	9,921	0
0	0	0	0	0	0	9,930	0	9,930	9,930	0
0	0	0	0	0	0	395,284	28,823	424,107	424,107	0
126	107	278	187	40	416	267,989	0	267,989	267,973	16
126	107	278	187	40	416	663,273	28,823	692,096	691,680	416
0	0	0	0	0	0	461,086	134,710	595,796	595,796	0
43,344	11,275	44,919	12,828	-55,455	-21,757	168,121	0	168,121	167,155	966
43,344	11,275	44,919	12,828	-55,455	-21,757	629,207	134,710	763,917	763,551	366
-81	-88	-86	-26	0	0	7,809,509	3,015,073	10,824,582	10,824,582	0
1,853	1,033	20,170	41,068	174,755	853	680,347	0	680,347	678,845	1,502
1,772	945	20,084	41,042	174,755	853	8,489,856	3,015,073	11,504,929	11,503,427	1,502
0	0	0	0	0	0	519,425	371,947	891,372	891,372	0
389	314	292	499	437	807	-33,808	0	-33,808	-34,852	1,044
389	314	292	499	437	807	485,617	371,947	857,564	856,520	1,044
0	0	0	0	0	0	478,971	327,881	806,852	806,852	0
125,515	3,826	-11,992	-13,190	1,272	7,658	477,484	0	477,484	472,089	5,395
125,515	3,826	-11,992	-13,190	1,272	7,658	956,455	327,881	1,284,336	1,278,941	5,395
0	0	0	0	0	0	1,954,297	1,438,119	3,392,416	3,392,416	0
469,435	9,173	3,357	6,138	510	5,040	952,818	0	952,818	947,699	5,119
469,435	9,173	3,357	6,138	510	5,040	2,907,115	1,438,119	4,345,234	4,340,115	5,119
0	0	0	0	0	0	424,966	324,413	749,379	749,379	0
56,905	3,144	7,529	3,240	885	1,146	357,073	0	357,073	355,868	1,205
56,905	3,144	7,529	3,240	885	1,146	782,039	324,413	1,106,452	1,105,247	1,205
0	0	0	0	0	0	1,022,313	832,644	1,854,957	1,854,952	5
879,590	0	-279	0	0	0	4,939,979	0	4,939,979	4,939,979	0
879,590	0	-279	0	0	0	5,962,292	832,644	6,794,936	6,794,931	5
1,633,994	105,715	515,984	53,536	-81,065	-5,837	21,536,048	6,488,843	28,024,891	28,029,839	-4,948
1,287	846	23,737	11,424	10,492	2,140	89,858,629	67,353,494	157,212,123	153,177,617	4,034,506
4,243,928	2,359,542	4,361,643	2,830,650	1,825,607	1,070,124	67,965,475	0	67,965,475	66,819,430	1,146,045
4,245,215	2,360,388	4,385,380	2,842,074	1,836,099	1,072,264	157,824,104	67,353,494	225,177,598	219,997,047	5,180,551

Notes to Table 1, Pages 8 and 9

- a) Recreation and enhancement costs refer only to (1) multipurpose facility capital costs allocated to recreation, and (2) the capital costs of lands acquired for associated recreation development. These costs are budgeted by DWR from funds that are available for

financing Project construction costs.

Recreation and enhancement costs not reported in Table 1 are budgeted by several State departments. These costs, financed by appropriations from a variety of funds, are summarized as follows:

Type of Recreation and Enhancement Costs Not Reported in Table 1	General Fund Appropriations, unless otherwise noted		
	1986-87 ^(a)	1985-86 ^(b)	Total 1962-63 thru 1986-87 ^(c)
Allocated operation, maintenance, power and replacement costs of multipurpose facilities	0 ^(d)	0 ^(d)	\$16,657,000
Capital costs of recreation developments	\$ 80,000	\$3,278,000	\$98,000,000 ^{(e)(f)}
Operation, maintenance, and replacement costs of recreation developments	\$7,559,000	\$7,279,000	\$73,323,000 ^(g)

a) Amounts in Governor's budget.
b) 1985-86 budgeted amount.
c) Actual through 1984-85 plus a) and b).
d) No SWP operation and maintenance costs budgeted.
e) Amounts from State recreation bond funds and other State and federal recreation funds.
f) Includes \$1,236,000 from the Harbors and Watercraft Revolving Fund, and \$200,000 directly from the Highway Users Tax Fund.
g) Operation, maintenance, power, and replacement costs are budgeted by the Department of Parks and Recreation; boating facility costs are budgeted by the Department of Boating and Waterways; and enhancement development costs are budgeted by the Department of Fish and Game.

Allocated operation, maintenance, power, and replacement (OMP&R) costs of multipurpose facilities are budgeted by DWR and financed by annual appropriations from the State General Fund. Capital costs (other than land acquisition costs), along with OMP&R costs of recreation facilities, are budgeted by the Department of Parks and Recreation. However, the costs of constructing boating facilities are budgeted by the Department of Boating and Waterways, and the costs of enhancement developments are budgeted by the Department of Fish and Game.

- b) Joint capital costs allocated to recreation and enhancement are based on DWR's derivation, for each multipurpose facility, of the percentages of the total joint costs attributable to each included purpose. These derivations are based on the application of conventional cost allocation methods that weigh the estimated costs to be incurred and the benefits to be realized during a 50-year period of analysis. Allocated costs reflect the application of these percentages to the actual capital costs incurred for each facility, as accounted by DWR.

Costs allocated to recreation and enhancement generally are first reported in the year following the year construction of a facility is completed. However, these allocated costs may be subsequently changed by either the adjustment of accounted capital costs or the revision of allocation percentages.

In response to questions raised by the Department of Finance, DWR retained a consulting economist to review the method and factors supporting the project purpose cost allocations for the SWP. The consultant's report was completed in January 1985. In general, the consultant agreed with the

allocation method and the manner in which it is applied by DWR. The Department of Finance received a copy of the report in February 1985.

- c) Specific costs of acquiring land for recreation development are incurred by DWR under the authority of California Water Code Section 346. DWR purchases recreation land concurrently with other lands needed for multipurpose facilities, in order to (1) decrease the total land costs of the Project, and (2) acquire property in an orderly manner. Recreation lands acquired for each Project facility through September 30, 1985 are shown in the following table:

SUMMARY OF RECREATION LAND ACQUISITIONS^(a)

(in acres)

Project Facility	Acquired ^(b)	To Be Acquired	Federal Lands ^(c)	Total
Frenchman Lake	719	0	0	719
Antelope Lake	1,342	0	0	1,342
Lake Davis	733	0	0	733
San Luis Reservoir and O'Neill Forebay	2,518	0	0	2,518
Oroville Division	2,993	0	212	3,205
Lake Del Valle	1,206	0	0	1,206
California Aqueduct (excluding reservoirs)	1,834 ^(d)	^(e)	0	1,834
Castaic Lake	1,915	0	577	2,492
Silverwood Lake	3,223	0	0	3,223
Lake Perris	4,351	115	0	4,466
Total	20,834	115	789	21,738

- a) Includes recreation lands for only those project facilities with an established recreation land use and acquisition plan.
- b) Costs of acquiring these lands are shown in Table 1.
- c) These lands are presently being leased from the federal government at a nominal cost to the State.
- d) Possession and control of a portion of these lands will be transferred to the Department of Fish and Game for use in the Department's Southern California wildlife mitigation program. When the transfer is made, the acreage will be reduced accordingly.
- e) Additional land needs are to be identified by future studies.

DWR reports the annual expenditure of Project funds for acquiring all recreation land in the year following the expenditure. The costs of such lands generally are established when acquired, and are not affected by the allocation percentages for the associated multipurpose Project facility. However, the reported costs of certain lands may be subsequently revised due to (1) receipt of certain revenues (such as federal grants and miscellaneous income from rights of way sales), or (2) modification of the recreation land use plan.

The amounts to be reported in future years will include credits for any reduction in previously reported costs, together with interest income thereon. If recreation land is sold or if grants are received, the amount will be reported as a negative cost of the facility in the year received. If recreation land is reclassified as multipurpose Project land, the original purchase price, together with appropriate interest income, will be reported as a negative expenditure for specific land costs, and an appropriate amount will be added to joint capital costs allocated to recreation and enhancement for the associated facility.

The costs of acquiring land for recreation development reported herein include about \$1.1 million for land that will be used to mitigate impacts to wildlife habitat in Southern California resulting from construction of the SWP. As these lands are redesignated from recreation to Project (wildlife mitigation) purposes, the amounts to be reported in future years will include credits for the reduction in previously reported costs, together with appropriate interest income thereon.

The costs of acquiring recreation land also include the salaries of DWR personnel engaged in recreation land acquisition activities, together with indirect costs distributed on the basis of direct salaries.

- d) Interest accruals are calculated as shown in Table 2. Interest charges are accrued only on the portion of annual disbursements financed by the California Water Resources Development Bond Fund (proceeds from the sale of Burns-Porter bonds) and cease when such disbursements, together with cumulative interest accruals thereon, have been reimbursed. Calculations are based on the weighted average interest costs of Burns-Porter bonds sold to date (4.378 percent for the \$1.57 billion in bonds outstanding on December 31, 1985). This rate differs from the "Project Interest Rate" under SWP water supply contracts, in that interest costs on revenue bond sales are not included.

DWR is currently considering selling Water System Revenue Bonds to finance additional multipurpose facilities. Future interest accruals to be reported in Table 2, may include a portion of the interest costs of these revenue bonds.

As of December 31, 1985, a total of \$90 million had been reimbursed to DWR under the continuing annual \$5 million appropriation (through fiscal year 1984-85) of State tideland oil and gas revenues, authorized by California Statutes of 1966, First Extraordinary Session, Chapter 27.

With no allowance for future interest, reported reimbursement of the costs would cover the annual appropriations in the full amounts for each fiscal year through fiscal

year 2012-2013, together with \$281,779 of the appropriation for 2013-2014. With future interest computed at 4.378 percent, reported reimbursement of the costs would be covered by appropriations in the full amounts for each fiscal year through 2030-2031, together with \$1,204,422 of the appropriation for 2031-2032.

e) Costs previously reported are as shown in Table 1 (pages 8 and 9) of Appendix D to Bulletin 132-85. Such costs were based on DWR's accounting records as of December 31, 1984. The average interest cost on Burns-Porter bond sales was then 4.378 percent.

f) Reasons for cost increases are outlined below:

o Additional disbursements during 1985 for recreation lands and for joint capital costs allocated to recreation and enhancement.....
.....\$1,072,000

o Additional accrued interest on recreation costs not yet reimbursed by the continuing \$5 million annual appropriation due to changes in bond fund expenditures and an additional year of accrual (1985)..
.....\$4,032,000

o Adjustment to allocated costs for Del Valle Dam and Lake for 1985 - activity processed in 1985.....
.....\$2,000

o Adjustments to allocated costs for Dos Amigos to Termini and for capitalized O&M costs in 1984 at Warne Powerplant.....\$73,000

o Adjustment in previously reported Oroville Division specific recreation land costs for right of way activity after the cut-off date for Appendix D to Bulletin 132-85..
.....\$1,000

o Other retroactive accounting adjustments or costs reported prior to 1985\$1,000

TOTAL INCREASE.....\$5,181,000

TABLE 2: CALCULATION OF INTEREST ACCRUALS ON CALIFORNIA
(in dollars)

JOINT CAPITAL COSTS ALLOCATED TO RECREATION AND FINANCEMENT										
YEAR	ITEM	FRENCHMAN DAH AND LAKE	ANTELOPE DAH AND LAKE	GRIZZLY VALLEY DAH AND LAKE DAVIS	SAN LUIS DAH & RESERVOIR, O'NEILL FOREBAY & LOS BAIGOS RESERVOIR	CALIFORNIA AQUEDUCT DELTA TO DOS AMIGOS P.P.	OROVILLE DIVISION	DEL VALLE DAH AND LAKE DEL VALLE	CALIFORNIA AQUEDUCT DOS AMIGOS P.P. TO TERRINI	TOTAL
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1952- 1981	a. Disbursements:									
	1. Calif. Water Resources Development Bond Fund	102,997	1,036,428	4,003,092	2,028,296	4,467,667	5,725,262	10,546,762	48,626,865	76,537,369
	2. All Other Funds	2,527,259	4,047,949	945,773	1,407,339	1,092,494	4,110,193	2,399,729	33,566,752	50,097,488
	b. Reimbursements:									
	1. Calif. Water Resources Development Bond Fund	104,800	1,134,824	4,421,015	2,313,918	5,217,423	7,450,519	16,050,113	0	36,692,612
	2. All Other Funds	2,527,259	4,047,949	945,773	1,407,339	1,092,494	4,110,193	2,399,729	0	16,530,736
	c. Interest Accruals	1,803	98,396	417,923	285,622	749,756	1,725,257	5,503,352	36,428,300	45,210,409
1982	d. Beginning of Year Balance to be Reimbursed:									
	1. Calif. Water Resources Development Bond Fund	0	0	0	0	0	0	1	85,055,165	85,055,166
	2. All Other Funds	0	0	0	0	0	0	0	33,566,752	33,566,752
	e. Disbursements During Year:									
	1. Calif. Water Resources Development Bond Fund	0	0	0	-35,272	0	-28	0	59,123	23,823
	2. All Other Funds	69,404	88,787	51,133	281,990	145,514	14,317	24,576	3,169,852	3,845,573
	f. Reimbursements During Year Applied to:									
	1. Calif. Water Resources Development Bond Fund	0	0	0	0	0	0	0	0	0
	2. All Other Funds	0	0	0	0	0	0	0	0	0
	g. End-of-Year Balance Without Interest for:									
	1. Calif. Water Resources Development Bond Fund	0	0	0	-35,272	0	-28	1	85,114,288	85,078,989
	2. All Other Funds	69,404	88,787	51,133	281,990	145,514	14,317	24,576	36,736,604	37,412,325
	h. Interest Accrual on Average Balance	0	0	0	-772	0	-1	0	3,725,009	3,724,236
1983	i. Beginning of Year Balance to be Reimbursed:									
	1. Calif. Water Resources Development Bond Fund	0	0	0	-36,044	0	-29	1	88,839,297	88,803,225
	2. All Other Funds	69,404	88,787	51,133	281,990	145,514	14,317	24,576	36,736,604	37,412,325
	j. Disbursements During Year:									
	1. Calif. Water Resources Development Bond Fund	0	0	0	-16,941	0	-9	0	28,400	11,450
	2. All Other Funds	64,496	42,171	27,800	137,966	58,656	17,996	77,693	2,350,310	2,777,088
	k. Reimbursements During Year Applied To:									
	1. Calif. Water Resources Development Bond Fund	0	0	0	0	0	0	0	0	0
	2. All Other Funds	0	0	0	0	0	0	0	0	0
	l. End-of-Year Balance Without Interest for:									
	1. Calif. Water Resources Development Bond Fund	0	0	0	-52,985	0	-38	1	88,867,697	88,814,675
	2. All Other Funds	133,900	130,958	78,933	419,956	204,170	32,313	102,269	39,086,914	40,189,413
	m. Interest Accrual on Average Balance	0	0	0	-1,949	0	-1	0	3,890,006	3,888,056
1984	n. Beginning of Year Balance to be Reimbursed:									
	1. Calif. Water Resources Development Bond Fund	0	0	0	-54,934	0	-39	1	92,757,703	92,702,731
	2. All Other Funds	133,900	130,958	78,933	419,956	204,170	32,313	102,269	39,086,914	40,189,413
	o. Disbursements During Year:									
	1. Calif. Water Resources Development Bond Fund	0	0	0	-15,505	0	0	0	25,997	10,492
	2. All Other Funds	2,489	47,447	21,533	64,231	84,752	17,266	164,372	1,504,582	1,906,672
	p. Reimbursements During Year Applied to:									
	1. Calif. Water Resources Development Bond Fund	0	0	0	-70,439	0	-39	1	2,312,041	2,241,564
	2. All Other Funds	136,389	178,405	100,466	484,187	288,922	49,579	266,641	39,086,914	40,189,589
	q. End-of-Year Balance Without Interest for:									
	1. Calif. Water Resources Development Bond Fund	0	0	0	0	0	0	0	90,471,659	90,471,659
	2. All Other Funds	0	0	0	0	0	0	0	40,591,496	40,591,496
	r. Interest Accrual on Average Balance	0	0	0	-1,203	0	-1	0	4,010,891	4,009,687
1985	s. Beginning of Year Balance to be Reimbursed:									
	1. Calif. Water Resources Development Bond Fund	0	0	0	-1,203	0	-1	0	94,482,550	94,481,346
	2. All Other Funds	0	0	0	0	0	0	0	40,591,496	40,591,496
	t. Disbursements During Year:									
	1. Calif. Water Resources Development Bond Fund	0	0	0	-3,153	0	0	0	5,293	2,140
	2. All Other Funds	39,263	83,887	14,791	21,932	39,607	4,952	42,062	829,467	1,075,961
	u. Reimbursements During Year Applied to:									
	1. Calif. Water Resources Development Bond Fund	0	0	0	-4,356	0	-1	0	4,763,476	4,759,119
	2. All Other Funds	39,263	83,887	14,791	21,932	39,607	4,952	42,062	0	246,494
	v. End-of-Year Balance Without Interest for:									
	1. Calif. Water Resources Development Bond Fund	0	0	0	0	0	0	0	89,724,367	89,724,367
	2. All Other Funds	0	0	0	0	0	0	0	41,420,963	41,420,963
	w. Interest Accrual on Average Balance	0	0	0	-26	0	0	0	4,032,289	4,032,263
1986	x. Beginning of Year Balance to be Reimbursed:									
	1. Calif. Water Resources Development Bond Fund	0	0	0	-26	0	0	0	93,756,656	93,756,630
	2. All Other Funds	0	0	0	0	0	0	0	41,420,963	41,420,963
	TOTAL	0	0	0	-26	0	0	0	135,177,619	135,177,593
	y. Disbursements:									
	1. Calif. Water Resources Development Bond Fund	102,997	1,036,428	4,003,092	1,957,425	4,467,667	5,725,225	10,546,762	48,745,678	76,585,274
	2. All Other Funds	2,702,911	4,310,241	1,061,030	1,913,458	1,421,023	4,164,724	2,708,432	41,420,963	59,702,782
	TOTAL	2,805,908	5,346,669	5,064,122	3,870,883	5,888,690	9,889,949	13,255,194	90,166,641	136,288,056
	z. Reimbursements:									
	1. Calif. Water Resources Development Bond Fund	104,800	1,134,824	4,421,015	2,239,123	5,217,423	7,450,479	16,050,114	7,075,517	43,693,295
	2. All Other Funds	2,702,911	4,310,241	1,061,030	1,913,458	1,421,023	4,164,724	2,708,432	41,420,963	59,702,782
	TOTAL	2,807,711	5,445,065	5,482,045	4,152,581	6,638,446	11,615,203	18,758,546	7,075,517	61,975,114
	TOTAL INTEREST ACCRUALS, 1952 THROUGH 1986	1,803	98,396	417,923	281,672	749,756	1,725,254	5,503,352	52,086,495	60,864,651

WATER RESOURCES DEVELOPMENT BOND FUND DISBURSEMENTS

@ 4.378% per annum)

COSTS OF ACQUIRING LAND FOR RECREATION DEVELOPMENT													
FRENCHMAN DAM AND LAKE	GRIZZLY VALLEY DAM AND LAKE DAVIS	ABBEY BRIDGE DAM AND RESERVOIR	SAN LUIS DAM & RESERVOIR, O'NEILL FOREBAY & LOS BANOS RESERVOIR	CALIFORNIA AQUEDUCT DELTA TO DOS AMIGOS P.P.	OROVILLE DIVISION	DEL VALLE DAM AND LAKE DEL VALLE	CALIFORNIA AQUEDUCT DOS AMIGOS P.P. TO TERMINI	CATAIC DAM AND LAKE	CEDAR SPRINGS DAM AND SILVERWOOD LAKE	PERRIS DAM AND LAKE PERRIS	TOTAL	GRAND TOTAL	
(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	
3,379 49,947	204,116 141,743	9 9,921	395,284 267,068	461,086 187,586	7,809,621 443,501	519,425 -35,843	478,971 493,736	1,954,297 937,773	424,966 344,273	1,022,313 4,940,258	13,273,467 7,779,963	89,810,836 57,877,451	
3,513 49,947	219,215 141,743	9 9,921	424,107 267,068	595,796 187,586	10,824,703 443,501	891,363 -35,843	806,844 493,736	3,391,902 937,773	748,989 344,273	1,845,240 4,185,266	19,751,681 7,024,971	56,444,293 23,555,707	
134	15,099	0	28,823	134,710	3,015,082	371,947	327,881	1,438,067	324,374	831,650	6,487,767	51,698,176	
0 0	0 0	0 0	0 0	0 0	0 0	9 0	8 0	462 0	351 0	8,723 754,992	9,553 754,992	85,064,719 34,321,744	
0 0	0 451,796	0 0	0 278	0 44,919	-86 20,170	0 292	-11,992 -11,992	0 3,357	0 7,529	0 -279	-86 516,070	23,737 4,361,643	
0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	
0 0	0 451,796	0 0	0 278	0 44,919	-86 20,170	9 292	8 -11,992	462 3,357	351 7,529	8,723 754,713	9,467 1,271,062	85,088,456 38,683,387	
0 0	0 0	0 0	0 0	0 0	-2 0	0 0	0 0	20 0	15 0	382 0	415 0	3,724,651	
0 0	0 451,796	0 0	0 278	0 44,919	-88 20,170	9 292	8 -11,992	482 3,357	366 7,529	9,105 754,713	9,882 1,271,062	88,813,107 38,683,387	
0 0	0 2,792	0 0	0 187	0 12,828	-26 41,068	0 499	0 -13,190	0 6,138	0 3,240	0 0	-26 53,562	11,424 2,830,650	
0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	
0 0	0 454,588	0 0	0 465	0 57,747	-114 61,238	9 791	8 -25,182	482 9,495	366 10,769	9,105 754,713	9,856 1,324,624	88,824,531 41,514,037	
0 0	0 0	0 0	0 0	0 0	-4 0	0 0	0 0	21 0	16 0	399 0	432 0	3,888,488	
0 0	0 454,588	0 0	0 465	0 57,747	-118 61,238	9 791	8 -25,182	503 9,495	382 10,769	9,504 754,713	10,288 1,324,624	92,713,019 41,514,037	
0 0	0 -203,509	0 0	0 40	0 -55,455	0 174,755	0 437	0 1,272	0 510	0 885	0 0	0 -81,065	10,492 1,825,607	
0 0	0 251,079	0 0	0 505	0 2,292	-118 235,993	9 1,228	8 -23,910	503 10,005	382 11,654	9,504 754,713	10,288 1,243,559	2,251,852 2,748,148	
0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	90,471,659 40,591,496	
0 0	0 0	0 0	0 0	0 0	-3 0	0 0	0 0	11 0	8 0	208 0	224 0	4,009,911	
0 0	0 0	0 0	0 416	0 -21,757	0 853	0 807	0 7,658	0 5,040	0 1,146	0 0	0 -5,837	94,481,570 40,591,496	
0 0	0 0	0 0	0 416	0 -21,757	-3 853	0 807	0 7,658	11 5,040	8 1,146	208 0	224 -5,837	2,140 1,070,124	
0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	4,759,343 240,657	
0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	89,724,367 41,420,963	
0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	5 0	5 0	4,032,268	
0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	5 0 5	5 0 5	93,756,635 41,420,963 135,177,598	
3,379 49,947 53,326	204,116 392,822 596,938	9 9,921 9,930	395,284 267,989 663,273	461,086 168,121 629,207	7,809,509 680,347 8,489,856	519,425 -33,808 485,617	478,971 477,484 956,455	1,954,297 952,818 2,907,115	424,966 357,073 782,039	1,022,313 4,939,979 5,962,292	13,273,355 8,262,693 21,530,048	89,858,629 67,965,475 157,824,104	
3,513 49,947 53,460	219,215 392,822 612,037	9 9,921 9,930	424,107 267,989 692,096	595,796 168,121 763,917	10,824,582 680,347 11,504,929	891,372 -33,808 857,564	806,852 477,484 1,284,336	3,392,416 952,818 4,345,234	749,379 357,073 1,106,452	1,854,952 4,939,979 6,794,931	19,762,193 8,262,693 28,024,886	63,455,488 26,544,512 90,000,000	
134	15,099	0	28,823	134,710	3,015,073	371,947	327,881	1,438,119	324,413	832,644	6,488,843	67,353,494	

Summary of Allocation Percentages

Each year DWR determines water contractor charges for the SWP based on allocations of costs among purposes of facilities used for more than a single purpose. These determinations are based on the percentages previously

reported to and approved by the Legislature, as well as preliminary estimates for facilities not yet reported. These percentages are summarized in the following table:

SUMMARY OF COST ALLOCATION PERCENTAGES

(in percent of joint costs of the respective facilities)

Facilities of the State Water Project	Reimbursable Purposes	Nonreimbursable Purposes		Total
	Water Supply and Power Generation	Flood Control	Recreation and Fish and Wildlife Enhancement	
Capital Costs of Features Jointly Used				
<u>Project Conservation Facilities</u>				
Frenchman Dam and Lake ^(a)	21.5	0	78.5	100.0
Antelope Dam and Lake ^(a)	0	0	100.0	100.0
Grizzly Valley Dam and Lake Davis ^(a)	1.0	0	99.0	100.0
Oroville Division ^{(a)(b)}	97.1	0	2.9	100.0
California Aqueduct, Delta, to Dos Amigos Pumping Plant ^(a)	96.6	0	3.4	100.0
Delta Facilities ^(c)	86.0	0	14.0	100.0
<u>Project Transportation Facilities</u>				
Grizzly Valley Pipeline	100.0	0	0	100.0
North Bay Aqueduct ^(c)	100.0	0	0	100.0
South Bay Aqueduct:				
Del Valle Dam and Lake Del Valle ^(a)	25.2	26.8	48.0	100.0
Remainder of South Bay Aqueduct	100.0	0	0	100.0
California Aqueduct:				
California Aqueduct, Delta, to Dos Amigos Pumping Plant ^(a)	96.6	0	3.4	100.0
California Aqueduct, Dos Amigos Pumping Plant to Termini excluding the Coastal Branch ^(a)	94.3	0	5.7	100.0
<u>Coastal Branch</u>	100.0	0	0	100.0
a) Final percentages, subject to review as discussed on Page 11.				
b) Percentages are applicable to Capital Costs of Features Jointly Used, minus Federal Flood Control Payments.				
c) Illustrative percentages only, assumed for current project financial and repayment analyses.				
NOTE: Percentages shown are those applicable to the costs of the facilities as accounted by the State, or, in the case of Federal-State joint-use facilities (San Luis Facilities), only the State's share of the total cost.				

**COMMENTS
BY
THE DEPARTMENT OF BOATING AND WATERWAYS,
THE DEPARTMENT OF PARKS AND RECREATION,
AND
THE DEPARTMENT OF FISH AND GAME**

Memorandum



To : David N. Kennedy
Director
Department of Water Resources

Date :

Subject: Cost Allocations to
Recreation and Fish and
Wildlife Enhancement,
State Water Project

From : **Department of Boating and Waterways**

In accordance with Section 11912 of the California Water Code, the Department of Boating and Waterways has reviewed the subject allocations and we have no comments.


 WILLIAM H. IVERS
Director

Memorandum

Date : SEP 10 1986

To : Honorable David N. Kennedy, Director
Department of Water Resources

From : Department of Parks and Recreation

Subject: Annual Report to the Legislature
Cost Allocations to Recreation and
Fish and Wildlife Enhancement
State Water Project

In accordance with California Water Code Section 11912, the Department of Parks and Recreation has reviewed your Bulletin 132-86 (Cost of Recreation and Fish and Wildlife Enhancement) Appendix D. The report appears consistent with those presented in previous years. Since it would take a great deal of research and staff time to verify your allocations, we will assume the figures to be correct and will be verified at a later date by an audit.


Wm. S. Briner
Director

Memorandum

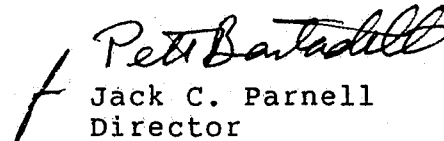
to : David N. Kennedy, Director
Department of Water Resources
1416 Ninth Street
Sacramento, CA 95814

Date : September 12, 1986

From : Department of Fish and Game

Subject : Department of Water Resources Bulletin 132-86, Appendix D - Costs
of Recreation and Fish and Wildlife Enhancement

Thank you for the opportunity to review the referenced report. My staff has reviewed the document and finds that it adequately describes DWR's costs which have been expended for fish and wildlife.


Jack C. Parnell
Director

CONVERSION FACTORS

Quantity	To Convert from Metric Unit	To Customary Unit	Multiply Metric Unit By	To Convert to Metric Unit Multiply Customary Unit By
Length	millimetres (mm)	inches (in)	0.03937	25.4
	centimetres (cm) for snow depth	inches (in)	0.3937	2.54
	metres (m)	feet (ft)	3.2808	0.3048
	kilometres (km)	miles (mi)	0.62139	1.6093
Area	square millimetres (mm ²)	square inches (in ²)	0.00155	645.16
	square metres (m ²)	square feet (ft ²)	10.764	0.092903
	hectares (ha)	acres (ac)	2.4710	0.40469
	square kilometres (km ²)	square miles (mi ²)	0.3861	2.590
Volume	litres (L)	gallons (gal)	0.26417	3.7854
	megalitres	million gallons (10 ⁶ gal)	0.26417	3.7854
	cubic metres (m ³)	cubic feet (ft ³)	35.315	0.028317
	cubic metres (m ³)	cubic yards (yd ³)	1.308	0.76455
	cubic dekametres (dam ³)	acre-feet (ac-ft)	0.8107	1.2335
Flow	cubic metres per second (m ³ /s)	cubic feet per second (ft ³ /s)	35.315	0.028317
	litres per minute (L/min)	gallons per minute (gal/min)	0.26417	3.7854
	litres per day (L/day)	gallons per day (gal/day)	0.26417	3.7854
	megalitres per day (ML/day)	million gallons per day (mgd)	0.26417	3.7854
	cubic dekametres per day (dam ³ /day)	acre-feet per day (ac-ft/day)	0.8107	1.2335
Mass	kilograms (kg)	pounds (lb)	2.2046	0.45359
	megagrams (Mg)	tons (short, 2,000 lb)	1.1023	0.90718
Velocity	metres per second (m/s)	feet per second (ft/s)	3.2808	0.3048
Power	kilowatts (kW)	horsepower (hp)	1.3405	0.746
Pressure	kilopascals (kPa)	pounds per square inch (psi)	0.14505	6.8948
	kilopascals (kPa)	feet head of water	0.33456	2.989
Specific Capacity	litres per minute per metre drawdown	gallons per minute per foot drawdown	0.08052	12.419
Concentration	milligrams per litre (mg/L)	parts per million (ppm)	1.0	1.0
Electrical Conductivity	microsiemens per centimetre (uS/cm)	micromhos per centimetre	1.0	1.0
Temperature	degrees Celsius (°C)	degrees Fahrenheit (°F)	(1.8 × °C) + 32 (°F - 32)/1.8	

State of California—Resources Agency
Department of Water Resources
P.O. Box 942836
Sacramento
94236-0001

